



LC1463

300mA High PSRR, Fast Response Linear Regulator

DESCRIPTION

LC1463 series is a group of positive voltage output, low power consumption, low dropout voltage regulator.

LC1463 can provide output value in the range of 1.0V~4.5V every 0.1V step. It also can be customized on command.

LC1463 includes high accuracy voltage reference, error amplifier, current limit circuit and output driver module with discharge capability.

LC1463 has excellent load and line transient response and good temperature characteristics, which can assure the stability of chip and power system. And it uses trimming technique to guarantee output voltage accuracy within $\pm 2\%$.

LC1463 is available in SOT-23-3, SOT23-5, SC-70-5 and DFN1x1-4 packages which are lead free.

ORDERING INFORMATION

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| Code | Description |
|-------------------|---|
| 1 | Temperature&Rohs: C: -40~85°C, Pb Free Rohs Std. A: short circuit current >100mA |
| 2 | Package type: A5: SC-70-5 B5A: SOT-23-5(A) B5B: SOT-23-5(B) B3: SOT23-3 KE: DFN1x1-4 |
| 3 | Packing type: TR: Tape&Reel (Standard) |
| 4 | Output voltage: e.g. 15=1.5V 18=1.8V 45=4.5V |

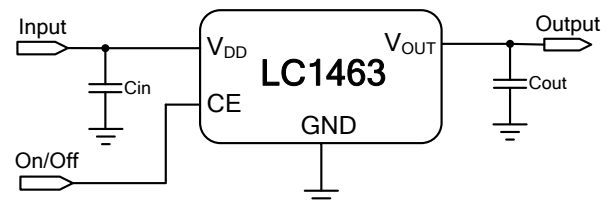
FEATURES

- Low Power Consumption: 35uA (Typ.)
- Low output noise (47uVRMS)
- Standby Mode: 0.1uA
- Low dropout Voltage: 300mV@300mA (Typ.)
- High Ripple Rejection: 70dB@10KHz (Typ.)
- Low Temperature Coefficient: ± 100 ppm/ $^{\circ}$ C
- Excellent Line regulation: 0.05%/V
- Build-in chip enable and discharge circuit
- Output Voltage Range: 1.0V~4.5V (customized on command every 0.1V step)
- Highly Accurate: $\pm 2\%$
- Output Current Limit

APPLICATIONS

- Power source for cellular phones and various kind of PCSs
- Battery Powered equipment
- Power Management of MP3, PDA, DSC, Mouse, PS2 Games
- Reference Voltage Source
- Regulation after Switching Power

TYPICAL APPLICATION



Note: Input capacitor ($C_{in}=1\mu F$) and Output capacitor ($C_{out}=1\mu F$) are recommended in all application circuit.

PIN CONFIGURATION

